1. (Currently Amended) A method for initializing a computer system, comprising the steps of:

sensing a command signal to boot the computer system;

generating a first control signal to initialize a boot process;

generating a second control signal to initialize a programmable logic device prior to completion of the initialization of the boot process; and

booting the computer system using the initialized programmable logic device to perform input/output (I/O) or DMA (direct memory access) transfers.

- 2. (Original) The method of claim 1, wherein the second control signal causes the programmable logic device to self-load logic code from a memory device.
- 3. (Original) The method of claim 1, wherein the second control signal causes a logic device to load logic code into the programmable logic device.
- 4. (Original) The method of claim 1, further comprising the step of sensing power to ensure power stability prior to generating the second control signal.
- 5. (Original) The method of claim 1 wherein the method steps are performed by a boot management circuit that manages the boot process.
- 6. (Original) The method of claim 1, further comprising the steps of generating a third control signal to indicate the type of boot process commanded.
- 7. (Original) The method of claim 6, wherein the type of boot process comprises one of a cold boot and a warm boot.

8. (Original) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps for initializing a computer system, the method steps comprising:

sensing a command signal to boot the computer system; generating a first control signal to initialize a boot process;

generating a second control signal to initialize a programmable logic device prior to completion of the initialization of the boot process; and

booting the computer system using the initialized programmable logic device <u>to</u> <u>perform input/output (I/O) or DMA (direct memory access) transfers.</u>

- 9. (Original) The program storage device of claim 8, wherein the second control signal causes the programmable logic device to self-load logic code from a memory device.
- 10. (Original) The program storage device of claim 8, wherein the second control signal causes a logic device to load logic code into the programmable logic device.
- 11. (Original) The program storage device of claim 8, further comprising instructions for sensing power to ensure power stability prior to generating the second control signal.
- 12. (Original) The program storage device of claim 8, further comprising instructions for generating a third control signal to indicate the type of boot process commanded.
- 13. (Original) The program storage device of claim 12, wherein the type of boot process comprises one of a cold boot and a warm boot.

14. (Currently Amended) A circuit for managing initialization of a computer system, comprising:

a first sense circuit for sensing power-up and ensuring power stability;
a second sense circuit for sensing a command signal to boot the computer system;
a control circuit for generating a control signal in response to sensing of a
command signal, to initialize a programmable logic device in advance of a boot process
to perform input/output (I/O) or DMA (direct memory access) transfers for the boot
process; and

a state machine for outputting a flag indicative of the type of the type of boot process commanded.

- 15. (Original) The circuit of claim 14, further comprising a first waveshaping circuit, operatively coupled to the first sense circuit, for generating a first pulse signal that is utilized to generate the control signal in response to a cold boot command.
- 16. (Original) The circuit of claim 15, wherein the first waveshaping circuit comprises a falling edge differentiator circuit.
- 17. (Original) The circuit of claim 14, further comprising a second waveshaping circuit, operatively coupled to the second sense circuit, for generating a second pulse signal that is utilized to generate the control signal in response to a warm boot command.
- 18. (Original) The circuit of claim 17, wherein the second waveshaping circuit comprises a rising edge differentiator circuit.
- 19. (Currently Amended) A system for initializing a computer, comprising: a boot storage device for storing initialization program code for initializing a computer during a boot process; and

a boot device adapter, operatively interfaced with the boot storage device, for accessing the initialization program code from the boot storage device in response to a request from the computer system; wherein the boot device adapter comprises:

- a programmable logic device; and
- a boot control circuit for generating a control signal to initialize the programmable logic device in advance of the boot process to perform input/output (I/O) or DMA (direct memory access) transfers for the boot process.
- 20. (Original) The system of claim 19, further comprising a memory device for storing logic code associated with the programmable logic device.
- 21. (Original) The system of claim 20, wherein the memory device resides in one of the boot device adapter, the computer system and both.
- 22. (Original) The system of claim 20, wherein the programmable logic device self-loads the logic code from the memory device in response to the control signal.
- 23. (Original) The system of claim 22, wherein the logic code comprises non-volatile logic code residing in memory on the boot storage device.
- 24. (Currently Amended) The system of claim 19, further comprising A system for initializing a computer, comprising:
- a boot storage device for storing initialization program code for initializing a computer during a boot process; and
- a boot device adapter, operatively interfaced with the boot storage device, for accessing the initialization program code from the boot storage device in response to a request from the computer system; wherein the boot device adapter comprises:
 - a programmable logic device; and
 - a boot control circuit for generating a control signal to initialize the programmable logic device in advance of the boot process; and
- a digital signal processor (DSP) that initializes the programmable logic device in response to the control signal.

- 25. (Original) The system of claim 24, wherein the boot control circuit comprises a state machine that outputs a flag signal indicative of the type of boot process commanded.
- 26. (Original) The system of claim 24, wherein the DSP processes the flag signal to determine whether to re-initialize the programmable logic device, if the flag signal indicates a warm boot process.
- 27. (Original) The system of claim 24, wherein the DSP resides on the boot device adapter.
- 28. (Original) The system of claim 24, wherein the DSP is operatively connected to the programmable logic device through a dedicated bus of the DSP.
- 29. (Original) The system of claim 28, wherein the dedicated bus comprises a communications port.
- 30. (Original) The system of claim 24, wherein the DSP retrieves logic code associated with the programmable logic device from a memory device residing on the boot device adapter.
- 31. (Original) The system of claim 30, wherein the memory device stores logic code associated with the DSP.